Parts of Circle Notes

Now you try ….

 Example 1.

 Name the circle:

 Name a radius:

 Name a diameter:

Radius = $\frac{1}{2}∙$ diameter Diameter =

Directions: Find the diameter, radius, circumference and area.

Ex. 2. Ex. 3. Ex. 4.

d=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ d=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ d=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

r=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ r=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ r=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ C=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ C=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ex. 5. Find the radius and diameter when the circumference is 22π.

d=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

r=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Parts of A Circle Independent Practice:

a. Name the circle. b. Name the radii of the circle.

c. Name the chords of a circle. d. Name the diameter of the circle.

Directions: Find the diameter, radius, circumference and area.

2.

d=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ r=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ C=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Find the circumference of a circle with the radius of r=3$\sqrt{2}$. Use exact values.

4. If the radius of a circle is 4 what is the diameter and what is the circumference?

5. If the diameter of a circle is 6, find the radius and circumference.

**What is the Central Angle?**

The sum of the measures of the central angle of a

****circle, with no interior points in common, is \_\_\_\_\_\_\_\_\_\_.

 $m<1+m<2+m<3=$

Example 6. **Arc Measure**: Find the $m\hat{BE}, m\hat{CBE}, and m\hat{ACE}$

$$m\hat{BE}=$$

$$m\hat{CBE=}$$

 $m\hat{ACE= }$

Example 7. Find the measure of each arc.

$m\hat{FB}=$

$m\hat{EC}=$

$m\hat{EFC}=$

$m\hat{FBD}=$

Arc Measure Independent Practice:







Recall: Arc Length.

With your shoulder partner, describe what arc length is and how you find it. Record your answers here.

Example 8: Find length of $\hat{QR}$



 Arc Length =

Review of all concepts! (Together)

Example 9: If $m∠RPT=50°$, $∠SPT≅∠RPT$ the radius is 7.5cm. Find the following:



Name a diameter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name a radius: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the circumference: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$m\hat{MTS}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the arc length of $\hat{MTS}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the arc length of $\hat{MS}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review: Independent Practice:

1. If $m∠DOE=120°$, $m∠DOC=16°$, the radius is 12cm. Find the following:



Name a diameter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name a radius: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the circumference: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$m\hat{DBA}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$m\hat{CB}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$m\hat{DBE}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$m\hat{DC}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the arc length of $\hat{DBA}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the arc length of $\hat{CB}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the arc length of $\hat{DBE}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the arc length of $\hat{DC}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_